



...Solutions that translate into **SUCCESS™**

DURACON™ **DURAble and CONductive Black Coatings**

- Family of unique black coatings with emissivity approaching 100%
 - Mechanically durable, rugged and stable up to ~2050 °F
 - Users include an extensive list of defense contractors and commercial businesses

Emissivity, ϵ > 98+% in 8 - 14 μm range (MTC Measurements)
 > 99% in 500nm - 20 μm range (Independent Measurements)

Electrical Conductivity Can be customized
 Typical Resistivity: < 700 ohm-cm; In special cases: < 1 ohm-cm

Target Surfaces Practically any solid surface:
 Metallic, glass, ceramic, composite, plastic, plaster, wood, foamboard,
 and even cardboard.

Wavelength Range UV to long IR (> 25 μm)

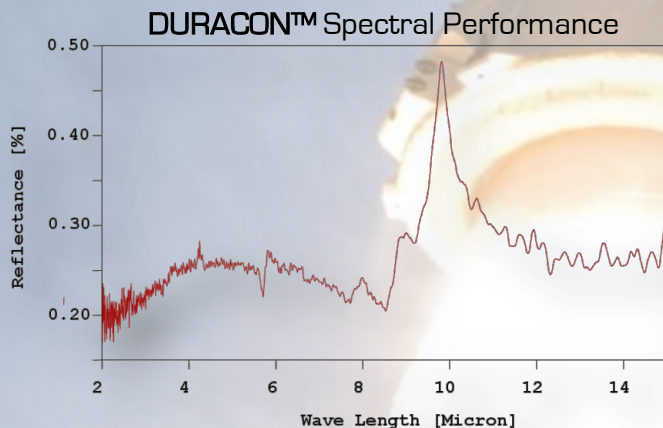
Surface Finish 320 to 400-grit fine abrasive paper

Reparability Simple, quick, and *in-situ*. Simply overcoat a fresh layer of DURACON™

Adhesion Has withstood Mach -14 (U.S. Navy's wind tunnel test facility) and
 Mach -4 in corrosive hot gas testing (NASA - MSFC test facility)

Thermal Stability Up to ~2050 °F

Application Methods Brush on; Air brush (spray), Dip coating, Spin coating, etc.



3 Juniper Circle
Trumbull, CT 06611

Phone: (203) 502-8682
contact@american-imex.com



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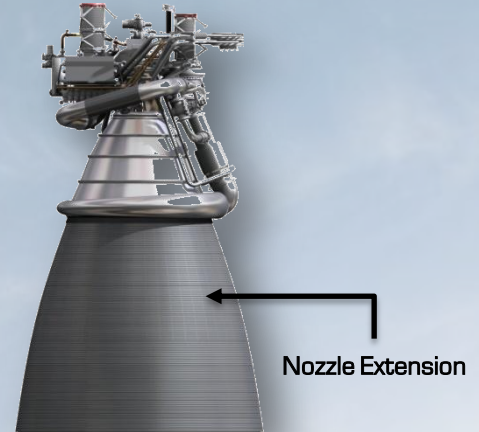
DURACON™ **DURAble and CONductive Black Coatings**

DURACON™ - The best selling black coating in the industry!

Recent applications:

- Candidate coating for nozzle extension in next generation Ares space launch vehicles
- Sensor coating in F-16 avionics upgrade
- IR sensing systems in low earth orbit satellites
- Pick-and-place systems in semi-conductor wafer fabrication
- Glucometers for healthcare industry
- High efficiency heat exchangers

J-2X Engine
Ares Rockets



Our Customers...

- NASA
- Raytheon
- BAE Systems/Galileo/Selex
- Sanders
- Northrop Grumman
- Los Alamos National Laboratory
- ASML
- Pratt & Whitney
- ITT Aerospace
- Ophir Optronics & Instruments
- UDT Sensors
- Boeing
- Ball Corporation
- OSI Opto electronics
- US Navy
- Rocketdyne
- Sellmark Products
- Universal Instruments
- SATAKE USA
- PerkinElmer Optoelectronics
- Xenogen
- Cambridge University
- SUNY - Buffalo
- Arizona State University
- University of Alaska
- InVivo Research
- Coastal Optics
- Micron Technology

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